

# Review of: "Research on the uncertainty of low-carbon environmental governance system and its impact on the dual goals of carbon emission reduction"

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Potential competing interests: No potential competing interests to declare.

This paper examines the uncertainty of low-carbon environmental governance system and its impact on the dual goals of carbon emission reduction. On the whole, this paper is interesting and well-organized. However, this study has some evident problems, my specific comments are as follows.

1. The title of the paper is not clear. I think it could be replaced by China's goal of carbon peak and carbon neutralization, which is more clear and specific, and makes readers quickly understand the main research object of the article.
2. The literature review lack logic and the authors need to further strengthen the literature review section. In addition, there is also a lack of review of the literature on the relationship between various aspects and carbon emission reduction. Therefore, the author is suggested to modify and supplement.
3. Is there a relationship between the uncertainty of policy environment, economic environment, innovation environment and market environment? The author is suggested to make some explanations.
4. It is recommended to clearly describe the reasons for using the panel smooth transition model.
5. In the empirical analysis, the author should refer to some valuable documents for the interpretation of the empirical results, rather than the subjective analysis of the whole article.
6. In the conclusion part, the author needs to give more detailed policy implications to the research conclusion.

In summary, the author is suggested to carefully modify and check the whole manuscript to improve the rigorousness and reliability of academic research.